

FIG. 1

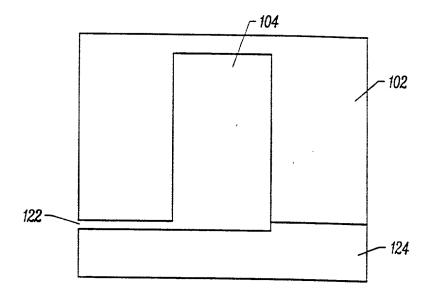


FIG. 2A

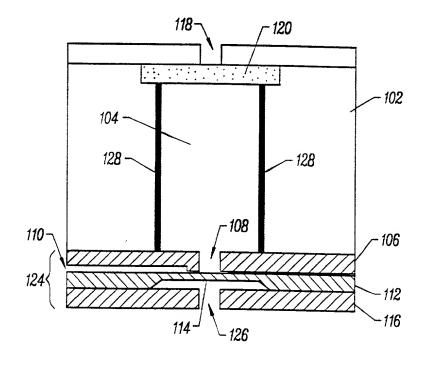


FIG. 2B

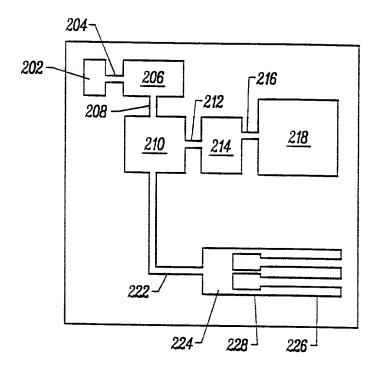
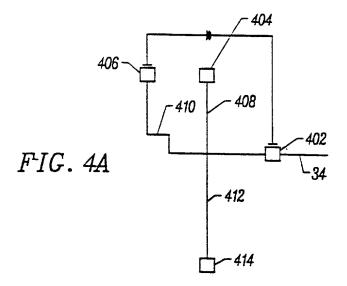
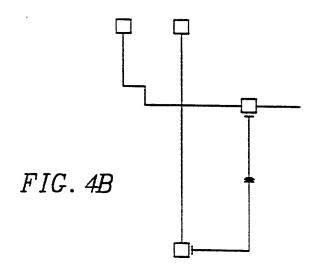
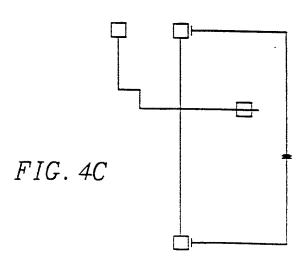


FIG. 3







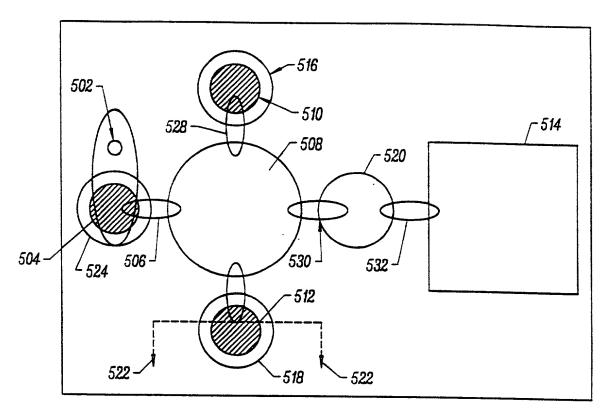


FIG. 5A

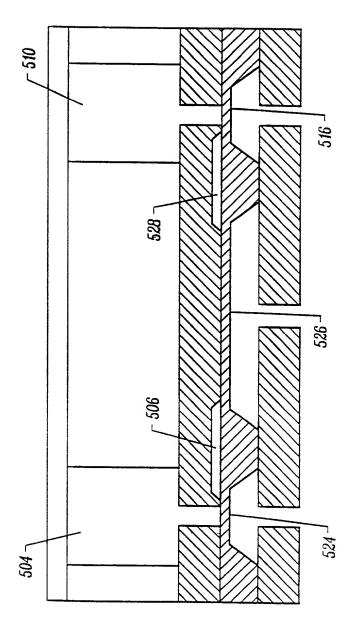
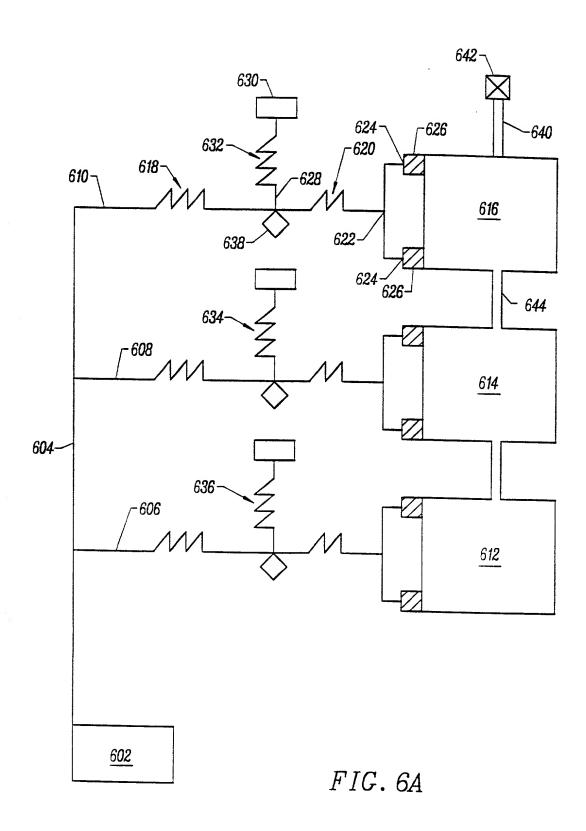
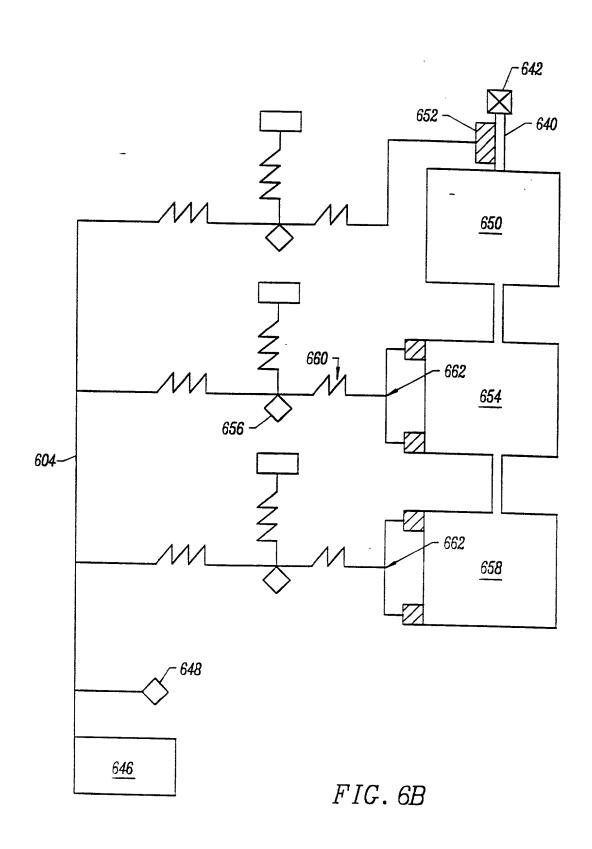


FIG. 5B





Pressure Distribution Among Control Nodes

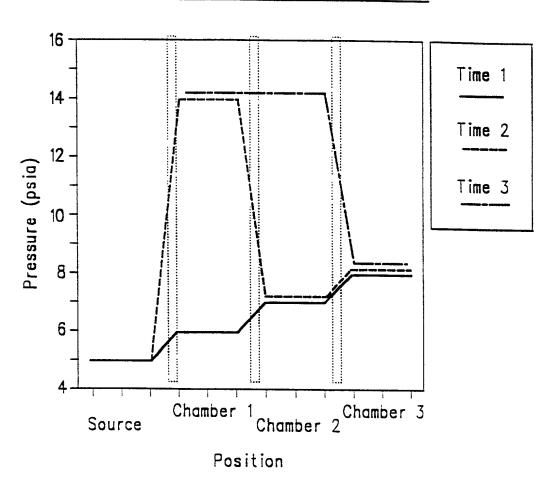


FIG. 6C

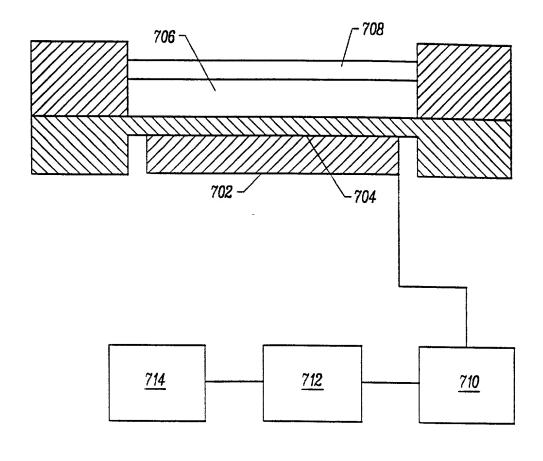


FIG. 7A

Flow Visualization



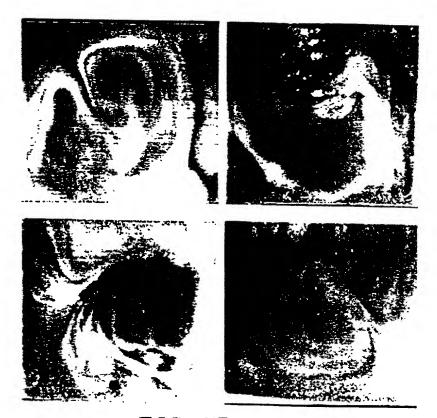
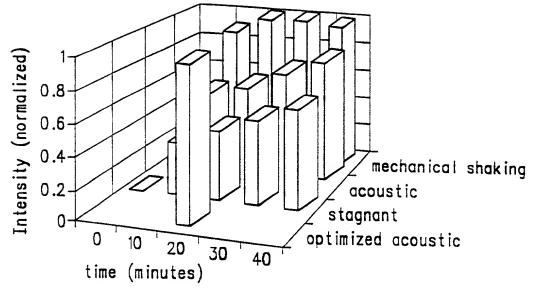


FIG. 7B



Checkerboard Oligo Test Pattern

FIG. 7C

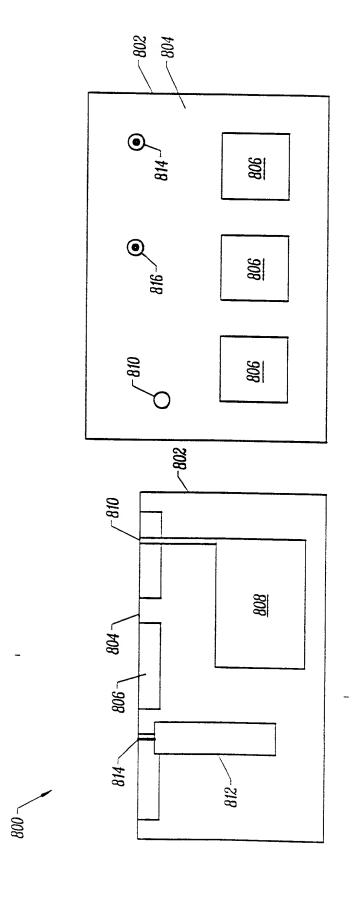
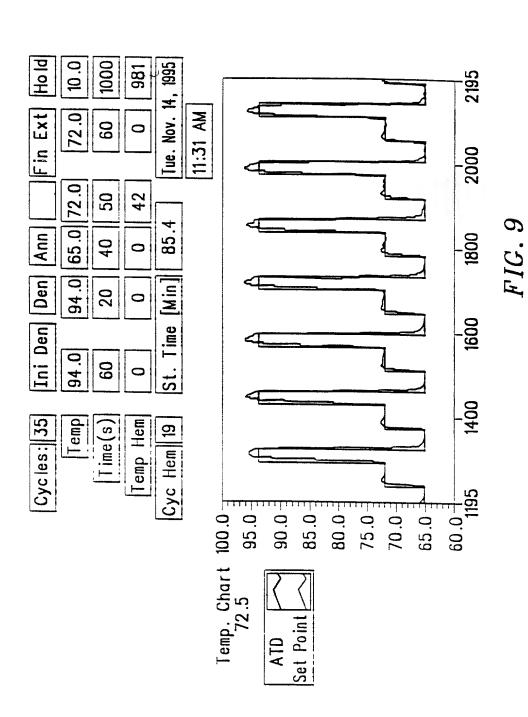
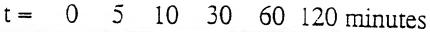
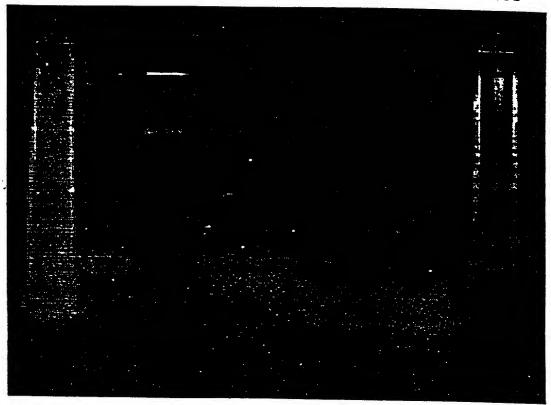


FIG. 8



Effect of Fragmentation Time at 94C





Correct Call Rates:

74% 95.8% 95.9% 95.9% 83%

FIG. 10A

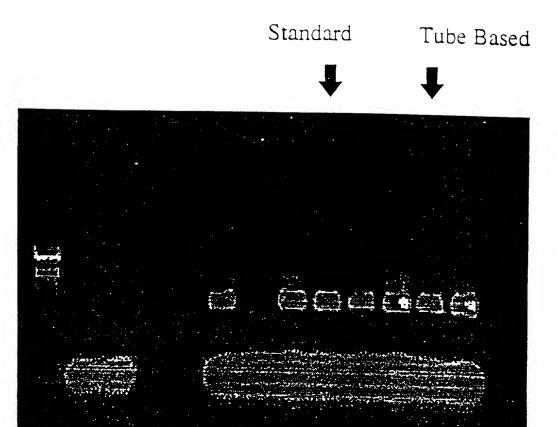


FIG. 10B

PCR Results

■ PCR:

amplification: 10⁹ (35 cycles)

control microchamber

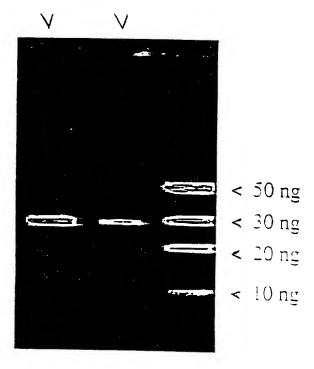


FIG. 10C

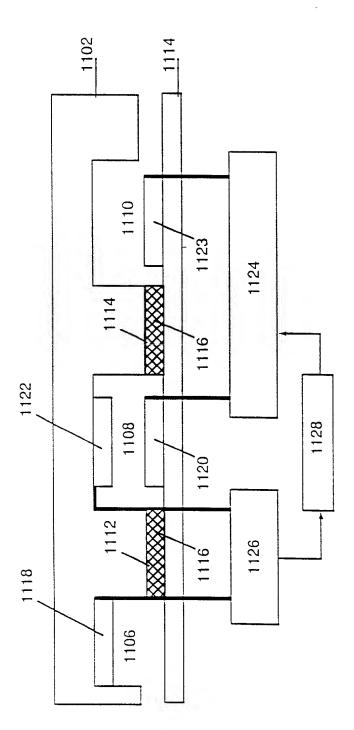


Figure 11

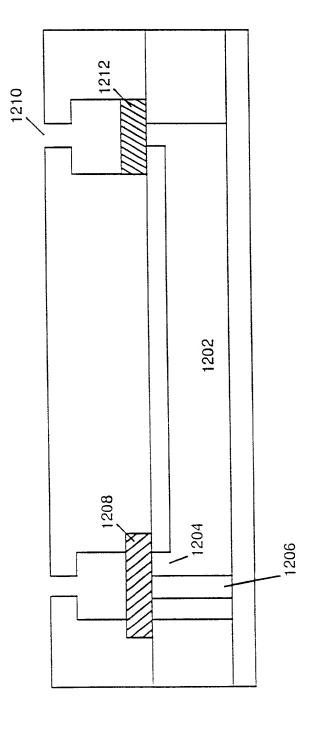


Figure 12a

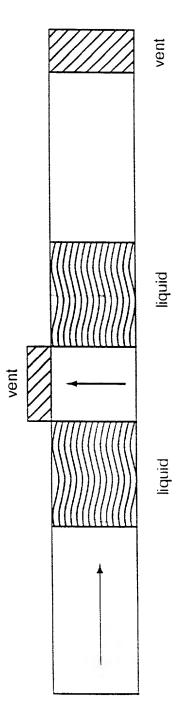


Figure 12b

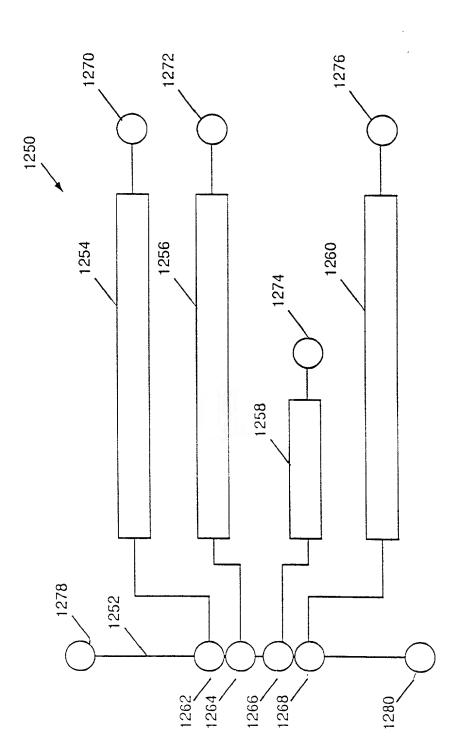


Figure 12c

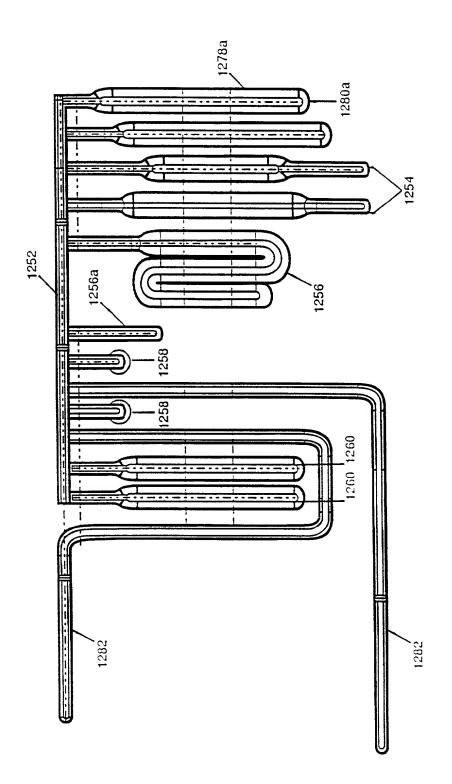


Figure 12d

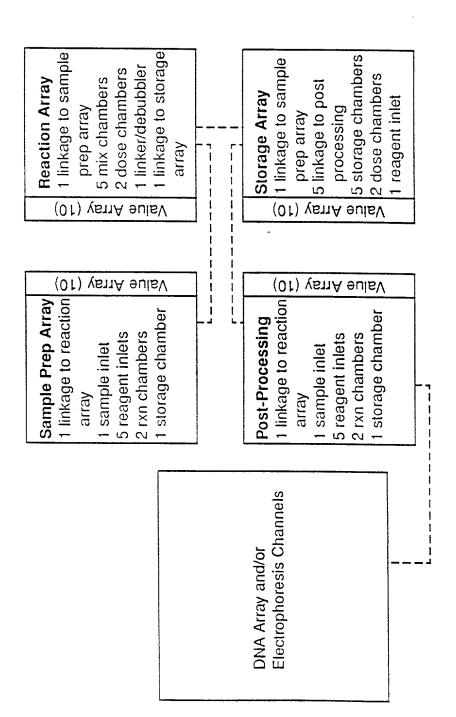


Figure 13

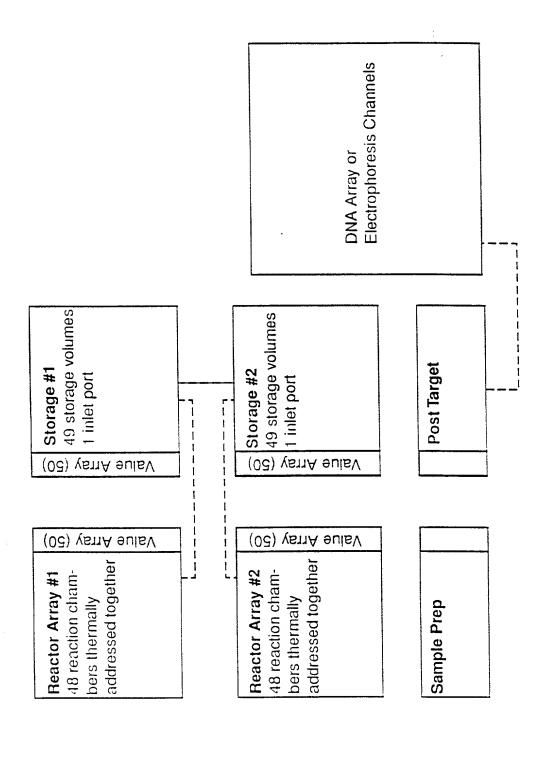


Figure 14

Thermal Configuration

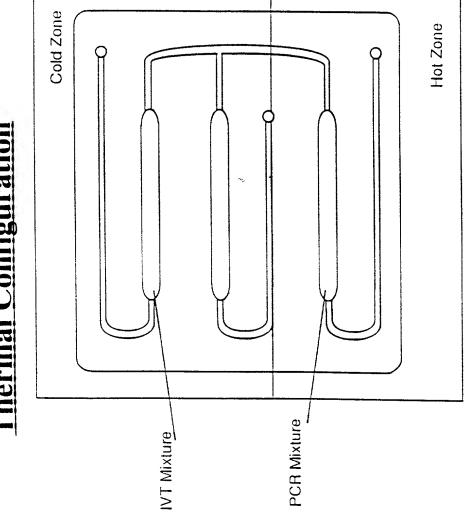


Figure 15a

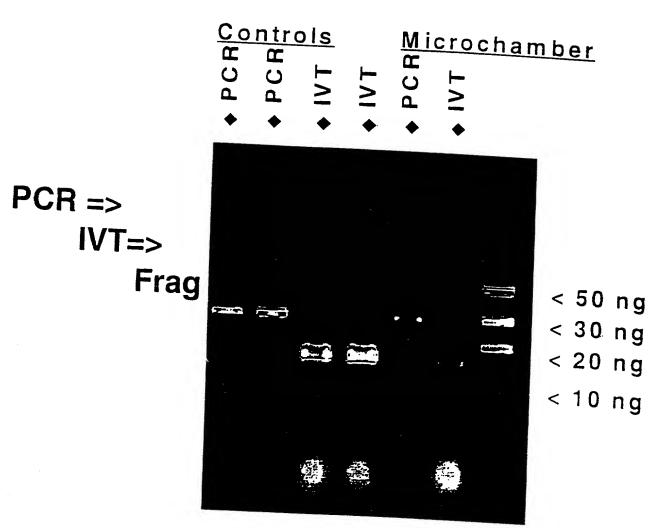


Fig. 15B